

APPENDIX G
RAILWAY BRIDGE STRUCTURE INVENTORY
AND APPRAISAL (SI&A) SHEET

SPECIAL CODING INSTRUCTIONS

The Federal Highway Administration (FHWA) publication "Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges" shall be used for completion of the SI&A data form

shown in this appendix except for those items with numbers greater than 199. Numbers greater than 199 denote items unique to the Corps' inventory. These items are described in reference 3*n*.

RAILROAD BRIDGE STRUCTURE INVENTORY AND APPRAISAL

*****IDENTIFICATION*****

(1) STATE NAME - _____ CODE _____
(200) COE DIVISION _____
(201) COE DISTRICT _____
(202) COE/DA BRIDGE NUMBER _____
(207) RAILROAD STRUCTURE NUMBER - # _____
(5) STATE INVENTORY ROUTE (ON/UNDER)
- (a), (b), . . ., (e) _____

(208) RAILROAD NAME - _____
(6) FEATURES INTERSECTED - _____
(7) FACILITY CARRIED - _____
(9) LOCATION - _____
(11) MILEPOINT _____
(16) LATITUDE ____' ____' ____' (17) LONGITUDE ____' ____' ____'
(98) BORDER BRIDGE STATE CODE _____ % SHARE ____%
(99) BORDER BRIDGE STRUCTURE NO. # _____

*****STRUCTURE TYPE & MATERIAL*****

(43) STRUCTURE TYPE MAIN: MATERIAL - _____
TYPE - _____ CODE _____
(44) STRUCTURE TYPE APPR: MATERIAL - _____
TYPE - _____ CODE _____
(45) NUMBER OF SPANS IN MAIN UNIT _____
(46) NUMBER OF APPROACH SPANS _____
(107) DECK STRUCTURE TYPE - _____ CODE _____
(108) WEARING SURFACE/PROTECTIVE SYSTEM:
(omit (a) and (b))
C) TYPE OF DECK PROTECTION - _____ CODE _____

*****AGE & SERVICE*****

(27) YEAR BUILT _____
(106) YEAR CONSTRUCTED _____
(42) TYPE OF SERVICE ON _____
UNDER _____ CODE _____
(28) TRACKS ON STRUCTURE - _____
(29) AVERAGE DAILY TRAFFIC _____
(30) YEAR OF ADT 19____

*****GEOMETRIC DATA*****

(48) LENGTH OF MAXIMUM SPAN _____ FT
(49) STRUCTURE LENGTH _____ FT
(50) CURB/SIDEWALK: LEFT ____' ____' FT/RIGHT ____' ____' FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB ____' ____' FT
(52) DECK WIDTH OUT TO OUT ____' ____' FT
(34) SKEW ____ DEG (35) STRUCTURE FLARED _____
(10) INVENTORY ROUTE MIN VERT CLEAR ____ FT ____ IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR ____' ____' FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY ____ FT ____ IN
(54) MIN VERT UNDERCLEAR REF - ____ FT ____ IN
(55) MIN LAT UNDERCLEAR RT REF - ____' ____' FT
(56) MIN LAT UNDERCLEAR LT ____' ____' FT

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BRIDGE RECORD WAS UPDATED ON _____

NOTE: ITEM NUMBERS CORRESPOND WITH THOSE USED IN THE
FHWA NATIONAL BRIDGE INVENTORY EXCEPT FOR THOSE
GREATER THAN 199, WHICH ARE UNIQUE TO THE USACE.

*****NAVIGATION DATA*****

(38) NAVIGATION CONTROL - _____ CODE _____
(111) PIER PROTECTION - _____ CODE _____
(39) NAVIGATION VERTICAL CLEARANCE _____ FT
(116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR _____ FT
(40) NAVIGATION HORIZONTAL CLEARANCE _____ FT

*****CLASSIFICATION*****

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(112) NBIS BRIDGE LENGTH - _____ CODE _____
(21) MAINTENANCE RESPONSIBILITY - _____ CODE _____
(22) OWNER - _____
(37) HISTORICAL SIGNIFICANCE _____ CODE _____

*****CONDITION***** CODE

(58) DECK _____
(59) SUPERSTRUCTURE _____
(60) SUBSTRUCTURE _____
(61) CHANNEL & CHANNEL PROTECTION _____
(62) CULVERTS _____

*****LOAD RATING & POSTING***** CODE

(206) RATED COOPER'S E LOAD - _____
(41) STRUCTURE OPEN, POSTED OR CLOSED - _____
DESCRIPTION - _____

*****APPRAISAL***** CODE

(71) WATERWAY ADEQUACY _____
(72) APPROACH ROADWAY ALIGNMENT _____
(36) TRAFFIC SAFETY FEATURES _____
(113) SCOUR CRITICAL BRIDGES _____

*****PROPOSED IMPROVEMENT*****

(75) TYPE OF WORK - _____ CODE _____
(76) LENGTH OF STRUCTURE IMPROVEMENT _____ FT
(94) BRIDGE IMPROVEMENT COST \$ _____, _____, 000
(95) ROADWAY IMPROVEMENT COST \$ _____, _____, 000
(96) TOTAL PROJECT COST \$ _____, _____, 000
(97) YEAR OF IMPROVEMENT COST ESTIMATE 19/20____
(114) FUTURE ADT _____
(115) YEAR OF FUTURE ADT 19/20____

*****INSPECTIONS*****

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(90) INSPECTION DATE ____/____/____ (91) FREQUENCY ____MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
A) FRACTURE CRIT DETAIL - ____-____MO A) ____/____
B) UNDERWATER INSP - ____-____MO B) ____/____
C) OTHER SPECIAL INSP - ____-____MO C) ____/____
(203) INSP OFF _____
(204) INSPECTOR _____
(205) INSPECTION COST - \$ _____
(209) RECOMMENDED SPEED LIMIT (MPH) _____
(210) POSTED SPEED LIMIT (MPH) _____
(216) SEISMIC CATEGORY _____
(217) ACCELERATION COEFFICIENT _____
(218) SOIL SITE CONDITION _____